+5/2017.18.

ಕಾಮಗಾರಿಯು ಪ್ರಾರಂಭವಾದ ದಿನಾಂಕ

04.2017 ರಂದು ಪ್ರಾರಂಭವಾಗಿ

ಒ 354401 ರಿಂದ 354500

ಸಂಖ್ಯೆಯ ಪುಸ್ತಕ ದಲ್ಲಿ

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore-92

22/4

22/04/17

BR 177/30617

SBR - 46/17-18
dt - 30/6/17

Balaji Layout

354401

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. 1st and Final BM

Name of Work Improvements to roads and drains in Hebbala saravara, From ..... To .....

Name of Contractor of nature of Agency and surrounding areas in ward no. 8. Kodigehalli

Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Estimated cost:- Rs. 20,00,000/- Job code no:- 008-17-000018 AS/ no:- CE (YNK)/60/2016-17, dt: 28/12/2016 TS/ no:- EE (BTP)/87/2016-17, dt: 28/12/2016 Agency:- N. venkatareddy. work order no:- BBMP/EE/BTP/400/2016-17 dt: 08/03/2017 Date of completion:- 31/3/17						
	1) Excavation for road way in all types of soil by mechanical means including cutting and pushing the earth to site of embankments including trimming bottom and side slopes in accordance with requirements of						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	lies, grades and cross section complete as per specification. = Qty vide premeasurement ref TMB Page no = 354470/2	742.90 m³			@ 73.44/cum	Rs 54559.00	
3)	Earthwork excavation by manual means in ordinary soil including an average horizontal lead upto 2 mts and an average lift upto 1.5m. excavated surface levelled and sides neatly dressed the disposed earth to be levelled neatly after leveling of slope. complete as per specification. = Qty vide Premeasurement ref TMB Page no = 354471	57.60 m³			@ 83.16/cum	Rs 4790.00	

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Serial No. .....
Name of Work ..... From
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
3)	Providing and laying in Post ope cum 1:2:4 180 kgs. cum of 40 aggregate @ 0.85 cum and then laid in layers not exceeding and plinth including cost of complete as per specification. = Qty vide	7.20
4)	Providing and construction	

th	Contents	Reference to last Measurement
	7	8
	specifications ref TMB 354470/2	
	4u/cum Rs 54559.00	
	dwork soil including an average upto 1.5m. excavated surface ll to be leveled neatly after	
	ref TMB 354471	
	83.66/cum Rs 4790.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354402

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
3)	providing and laying in position plain cement concrete of mix 1:4:8 with opc cement 180 kgs. mixed @ 40 mm down size graded granite metal coarse aggregate @ 0.85 cum and fine aggregate @ 0.57 cum mixing mixed cement sand in proper ratio not exceeding 15 cms thick, well compacted in foundations. and plinth including cost of all materials, labour hire & mixing complete as per specifications. = Qty vide premeasurement ref TM B page no = 354471/2						
		7.20 m³			@ Rs. 5070.60/cum	Rs.	36508.00
4)	providing and constructing granite / trap / kagalli size stone						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	masonry in basement with cement mortar 1:6, stone chips dressed in courses not less than 15 cm high bond stones at two m. apart in each course including cost of materials, labour cutting complete as per specification = Qty	vide remeasurement ref MB page no : 354432					
		23.04 m^3	@ 4905.36/cum			Rs. 113019.00	
5)	providing and laying in position plain cement concrete of mix 1:2:4 with cement @ not less. with 20 mm and down size graded granite metal coarse aggregate, @ 0.69 cum and fine aggregate @ 0.45 cum. mechanically mixed, concrete laid in layers, not exceeding 15 cm thick and						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	compacted in foundations a labour, hire of machi = Qty	
6)	providing and fixing and down size graded stone aggregate including cutting and fixi For cement	

OK

Depth 6	Contents 7	Reference to last Measurement 8
...nabar 1:6, stone chittle		
...gh bond stone ab two m.		
...materials, labour cuing		
...ls ref TMB		
...3544 Pz		
...4905.36/cum Rs. 113019.00		
...ain cement concrete of mix		
...20 mm and down size graded		
...m and fine aggregate @ 0.45 cum.		
...m, wet existing 15 cm thick cum		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354403

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	contracted in foundations and plinth and cuttg. including cost of all materials, labour, hire of machinery cuing complete as per specifications						
	= Qty vide premeasurement ref TMB						
							Page no = 3544 Pz
		4.32 m³					Rs 5490.72/cum Rs. 23719.00
6)	providing and fixing RCC 1:2:4 precast slab for covering upto 20 mm and down size graded jelly as per design including necessary centering framing cuing and finishing cuttg on 1:3, 8%, complete 150 cum thick.						
	For culvert	1x1	6.40	1.80	=	11.52	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		1×1	10.0	1.80	=	18.0	
		1×1	8.0	1.80	=	14.40	
		1×1	6.0	1.80	=	10.80	
						43.20 m²	
				Limit to	=	48.00 m²	
				@ Rs 5111.00/ 100m		Rs. 245328.0	
7)	providing precast slab of selected quality roughly dressed and fixed in cement mortar 1:6 including fixing curing etc complete 10 mm thick.						
	For BS slab drain	2×1	30.0	1.95	=	117.0	
	C&F.C	2×1	30.0	1.95	=	117.0	
		2×1	30.0	0.95	=	117.0	
	n.o (30/95 m)					351	

M.

Serial No. .....

Name of Work ..... F

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	3
	C&F.C	2×
	30/95	2×
	n.o (30/95 m)	
8)	providing one line dr	
	masonry as per specifica	
	= Rs	

BOOK

s		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
80	=	18.00	
80	=	14.40	
.80	=	10.80	
		54.72 m²	
Limit to =		48.00 m²	
.00/sqm		Rs. 245328.00	
quality roughly dressed and			
exig. cuic ft complete 10 mm			
.95	=	117.00	
.95	=	117.00	
.95	=	117.00	
		351/-	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354404

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	C&F.C	2×1	30.00	1.95	=	117.00	
		2×1	27.00	1.95	=	105.30	
						573.30 m²	573.30
					Limit to =	440.80 m²	
						Rs 794.88/sqm. Rs. 350383.00	
8/	Providing one line dressing to granite stone slab/ granite stone masonry, as per specifications						
	= Qty vide same as item no (7)						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		440.80 m²			Th. 555. 12/sqm	Rs. 244697.00	
9)	Compaction of original ground with maximum of 6 pass of 8 to 10 tones power roller including filling in depression cuts during rolling including cost of all labour, T&M of machinery complete as per specifications. = Qty vide measurement ref page no: 3544 m/s						
		949.65 m²			Th. 4.86/cum	Rs. 4615.00	
10)	Extra for watering the earth to bring the earth upto required optimum moisture content manually, including cost of all labour complete as per specifications.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nu
1	2	
	=	Qty
		319
11)	Extra for rolling the soil with power roller when optimum moisture content desired field density not achieved dearly proctor test as per specifications. =	Qty

Depth 6	Contents 7	Reference to last Measurement 8
555.	12/cum Rs. 244697.00	
	maximum of 6 passes of 8	
	in depression using	
	om of machinery complete	
	ecuted ref TM B	
	: 354473/2	
	4.86/cum Rs. 4615.00	
	ring the earth upto required	
	luding cost of all leads	

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354405

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	= Qty vide premeasurement ref TM B page no : 354473						
	319.20 m³					Rs. 7.56/cum	Rs. 2413.00
11/	Earth work in filling to specifications with the use of vibratory roller roller in layers not exceeding 20 cm thick at suitable moisture content with desired field density not less than 95% of maximum dry density (modified proctor test) including lead of material, complete as per specification.						
	= Qty vide premeasurement ref TM B page no : 354473/2						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		319.20 m^3	Ditto		17.28/m^3	Rs.	5516.00
12	providing, laying in spreading and compacting graded stone aggregate to wet mix macadam specification, including premixing the water at OMC in mechanical mix plant carriage of mixed materials, by tipper to site & laying in uniform layers with paver in sub-base / base course on an prepared surface and compacting with vibratory roller to achieve the desired density complete as per specification.						
	= As vide premeasurement ref. TM 3 page no : 35474						
		212.80 m^3	Ditto		1244.00/cum	Rs	264723.00

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
13	Cleaning the existing materials and other grouping with brass jimmy bags and / or including cost of all specification. =

pth 6	Contents 7	Reference to last Measurement 8
..28/m³ Rs.		5516.00
compacting including carriage of mixed materials prepared in uniform layers with prepared surface and the desired density	graded stone premixing the	
...ulars vide TM B : 354474		
1244.7/cum Rs		264723.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B 354406

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
13	Cleaning the existing WBM road surface including removing of binding mabraials, and other foreign matter with wire brushes and finally dusting with old grouting with brooms or soft brushes, and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all mabraials, labour tools & machines complete as per specifications. = Qty vide premeasurement ref TM B page no :	7588.89 ~~8250.00~~ m²					
						12.96/sqm Rs	98352.00 ~~106920.00~~

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
14	providing, laying bituminous concrete using 100/120 TBP Capacity H.M.P with crushed aggregate of specified grading premixed with 6-1. CRMB 55 grade bituminous binder and transporting the hot mix to work site, laying to the required level and grade rolling with vibratory and tandem roller to achieve the desired density including all lead and lift cost of all materials, labour HOM of machinery complete as per specification						
	Balaji layout cross road C&F.C.	1 X 1	30.00	$\frac{(6.40+6.45)}{2}$	× 0.035 =	6.75	
		1 X 1	30.00	$\frac{(6.45+6.50)}{2}$	× 0.035 =	6.80	
		1 X 1	30.00	$\frac{(6.50+6.55)}{2}$	× 0.035 =	6.82	
						20.37	

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	
		1 X
		1 X
15	Road marking with hot applied thermo p	

epth 6	Contents 7	Reference to last Measurement 8
	using 100/120 TKP (30 mm to 45mm) premixed with 6% transporting the hot required level and grade tandem roller to achieve and rate cost of all materials as per specification	
	× 0.035 = 6.75	
	× 0.035 = 6.80	
	× 0.035 = 6.82	
	20.37	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354407

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		1×1	30.⇔ $\left(\frac{6.50+6.40}{2}\right)$		0.035 =	6.77	
		1×1	27.⇔ $\left(\frac{6.40+6.50}{2}\right)$		0.035 =	6.09	
						3	
						33.23 m	
				Cmt to		31.92 m^3	
				Rft. 9888.48/ cum		Rs. 315640.⇔	
	15) Road marking with hot applied, thermoplastic, compound with reflectorising glass beads on bituminous surface providing and laying of hot applied thermoplastic compound 2.5 mm thick, including reflecto.						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Supply glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC: 35. The finished surface to be level, uniform and free from streaks and holes complete as per specification.						
	Balaji Layout cross rd	2 x 1	30.0	0.15	=	9.0	
		2 x 1	30.0	0.15	=	9.0	
		2 x 1	30.0	0.15	=	9.0	
		2 x 1	30.0	0.15	=	9.0	
		2 x 1	30.0	0.15	=	8.10	
		2 x 1	27.0	0.15	=	8.10	
		2 x 1	30.0	0.15	=	9.0	
		2 x 1	12.0	0.15	=	3.60	
						56.70 m²	
					Limit to	52.95 m²	

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Serial No. .....
Name of Work ..... From..
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
		52.95
16/	Lead for disposal of debri mechanical means including	
	= Qty	

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P..
Bangalore.

BOOK

ns		Contents	Reference to last Measurement
eadth 5	Depth 6	7	8
per	sqm area thickness of		
plinth.	stone beads as per IRC:		
ement.	mixture and fres-		
s per	specification.		
.15	= 9.00		
.15	= 9.00		
.15	= 9.00		
.15	= 9.00		
.15	= 8.10		
.15	= 9.00		
.15	= 3.60		
.15	2		
	56.70 m²		
	Limit to 52.95 m²		

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354408

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		52.95 m²		Rs 473.04/sqm		Rs 25047.00	
16)	Lead for disposal of debris shall be payable at carriage rate by mechanical means including loading and unloading from 13.30 kms.						
	= Qty vide item no (1+2)					= 735.29 m³	
				limit to:		715.00 m³	
				Rs. 114.08/cum		Rs 81567.00	
					Total Rs.	~~1879444.00~~	
						18,70,879-00	

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

24/4/17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Certificates:- 1) Work done is satisfactorily 2) All statutory clearance from the work spot using contractor own vehicle. 3) There are no departmental items for made to the above work. Accepted all measurements w/s/t full and final settlement N. V.						

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka
B.B.M.P.
Bangalore.

M. A
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Serial No. .....
Name of Work ..... Fron
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3
	Road	6 Nos

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Depth 6	Contents 7	Reference to last Measurement 8
the work spelt upon		
upon for made to the		

Assistant Executive Engineer,
Kodigehalli Sub Division,
Bangalore. B.B.M.P.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

354409

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Road	6th cross	Haysala commander veerabhadra apartments		6th cross		Asphalting surface B.S slab drain
	6th cross Balaji layout						

Assistant Executive Engineer,
Kodigehalli Sub Division,
Zone, B.B.M.P.,

BRNO:177/30.6.17

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	18.70.879-00 1.36575-00 17.34304-00 Rs. Seventeen Lakh Fifty four thousand three hundred Rupees only. Executive Engineer 30/6 30/6		Total Rs 18.70,879-00 VT - 18709-00 VAT - 74835-00 CCU - 18709-00 CSF - 1871-00 LR - 22451-00 Add - 1.36.575-00 Cheque 17.34.304-00				

BRNO:181/30.6.17

Serial No 1st and Final Bill

Name of Work ..... Provision of Ra

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	N
1	2	
	Esti. cost :- Rs. 14,00,0 Job code no :- 008-17 - AS/NO :- CE(YNK)/61 TS/NO :- EE/(BTP)/8 Work order no :- BBMP/ Date of completion :- 24 1) Earthwork excavation including sharing, stru	